STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/652,791B* *(handwritten)*
Source: *IFWI6 (handwritten)*
Date Processed by STIC: *10/3/06 (handwritten)*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/652,791 B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length
The rules require that a line **not exceed 72** characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 _____ Non-ASCII
The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 _____ Skipped Sequences
(OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)
Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10 _____ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa
"n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

AMC – Biotechnology Systems Branch – 09/09/2003

IFW16

RAW SEQUENCE LISTING　　　　　　　　　DATE: 10/03/2006
PATENT APPLICATION:　**US/10/652,791B**　　TIME: 10:37:42

Input Set : **E:\03-332-B_Sep 2006.txt**
Output Set: **N:\CRF4\10032006\J652791B.raw**

```
 3 <110> APPLICANT: Sirna Therapeutics, Inc.
 4       McSwiggen, James
 5       Chowrira, Bharat
 7 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Platelet-Derived
 8       Endothelial Cell Growth Factor (ECGF1) Gene Expression Using
 9       Short Interfering Nucleic Acid (siNA)
11 <130> FILE REFERENCE: 400/126 (MBHB 03-332-B)
13 <140> CURRENT APPLICATION NUMBER: US 10/652,791B
14 <141> CURRENT FILING DATE: 2003-08-29
16 <150> PRIOR APPLICATION NUMBER: US 10/422,704
17 <151> PRIOR FILING DATE: 2003-04-24
19 <150> PRIOR APPLICATION NUMBER: US 10/417,012
20 <151> PRIOR FILING DATE: 2003-04-16
22 <150> PRIOR APPLICATION NUMBER: PCT/US 03/05346
23 <151> PRIOR FILING DATE: 2003-02-20
25 <150> PRIOR APPLICATION NUMBER: PCT/US 03/05028
26 <151> PRIOR FILING DATE: 2003-02-20
28 <150> PRIOR APPLICATION NUMBER: US 60/358,580
29 <151> PRIOR FILING DATE: 2002-02-20
31 <150> PRIOR APPLICATION NUMBER: US 60/363,124
32 <151> PRIOR FILING DATE: 2002-03-11
34 <150> PRIOR APPLICATION NUMBER: US 60/386,782
35 <151> PRIOR FILING DATE: 2002-06-06
37 <150> PRIOR APPLICATION NUMBER: US 60/406,784
38 <151> PRIOR FILING DATE: 2002-08-29
40 <150> PRIOR APPLICATION NUMBER: US 60/408,378
41 <151> PRIOR FILING DATE: 2002-09-05
43 <150> PRIOR APPLICATION NUMBER: US 60/409,293
44 <151> PRIOR FILING DATE: 2002-09-09
46 <150> PRIOR APPLICATION NUMBER: US 60/440,129
47 <151> PRIOR FILING DATE: 2003-01-15
49 <160> NUMBER OF SEQ ID NOS: 225
51 <170> SOFTWARE: PatentIn version 3.2
53 <210> SEQ ID NO: 1
54 <211> LENGTH: 19
55 <212> TYPE: RNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
   sense region
61 <400> SEQUENCE: 1
62 cccgccgccg gcaguggac                                                  19
65 <210> SEQ ID NO: 2
66 <211> LENGTH: 19
```

(ps.11)

Does Not Comply
Corrected Diskette Needed
(ps.10)

RAW SEQUENCE LISTING   DATE: 10/03/2006
PATENT APPLICATION: US/10/652,791B   TIME: 10:37:42

Input Set : E:\03-332-B_Sep 2006.txt
Output Set: N:\CRF4\10032006\J652791B.raw

```
     67 <212> TYPE: RNA
     68 <213> ORGANISM: Artificial Sequence
     70 <220> FEATURE:
     71 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     73 <400> SEQUENCE: 2
     74 ccgcugugcg cgaacccug                                                    19
     77 <210> SEQ ID NO: 3
     78 <211> LENGTH: 19
     79 <212> TYPE: RNA
     80 <213> ORGANISM: Artificial Sequence
     82 <220> FEATURE:
     83 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     85 <400> SEQUENCE: 3
     86 gaacccuacg gucccgacc                                                    19
     89 <210> SEQ ID NO: 4
     90 <211> LENGTH: 19
     91 <212> TYPE: RNA
     92 <213> ORGANISM: Artificial Sequence
     94 <220> FEATURE:
     95 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     97 <400> SEQUENCE: 4
     98 ccgcgggcga ggccgggua                                                    19
    101 <210> SEQ ID NO: 5
    102 <211> LENGTH: 19
    103 <212> TYPE: RNA
    104 <213> ORGANISM: Artificial Sequence
    106 <220> FEATURE:
    107 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    109 <400> SEQUENCE: 5
    110 accugggcug ggauccgga                                                    19
    113 <210> SEQ ID NO: 6
    114 <211> LENGTH: 19
    115 <212> TYPE: RNA
    116 <213> ORGANISM: Artificial Sequence
    118 <220> FEATURE:
    119 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    121 <400> SEQUENCE: 6
    122 agcaagcggg cgagggcag                                                    19
    125 <210> SEQ ID NO: 7
    126 <211> LENGTH: 19
    127 <212> TYPE: RNA
    128 <213> ORGANISM: Artificial Sequence
    130 <220> FEATURE:
    131 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    133 <400> SEQUENCE: 7
    134 gcgcccuaag caggcccgg                                                    19
    137 <210> SEQ ID NO: 8
```

138 <211> LENGTH: 19
139 <212> TYPE: RNA

RAW SEQUENCE LISTING   DATE: 10/03/2006
PATENT APPLICATION: US/10/652,791B   TIME: 10:37:42

Input Set : E:\03-332-B_Sep 2006.txt
Output Set: N:\CRF4\10032006\J652791B.raw

```
     140 <213> ORGANISM: Artificial Sequence
     142 <220> FEATURE:
     143 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     145 <400> SEQUENCE: 8
     146 gagcgauggc agccuugau                                          19
     149 <210> SEQ ID NO: 9
     150 <211> LENGTH: 19
     151 <212> TYPE: RNA
     152 <213> ORGANISM: Artificial Sequence
     154 <220> FEATURE:
     155 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     157 <400> SEQUENCE: 9
     158 ugaccccggg aaccggggc                                          19
     161 <210> SEQ ID NO: 10
     162 <211> LENGTH: 19
     163 <212> TYPE: RNA
     164 <213> ORGANISM: Artificial Sequence
     166 <220> FEATURE:
     167 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     169 <400> SEQUENCE: 10
     170 ccccacccgc gccugguga                                          19
     173 <210> SEQ ID NO: 11
     174 <211> LENGTH: 19
     175 <212> TYPE: RNA
     176 <213> ORGANISM: Artificial Sequence
     178 <220> FEATURE:
     179 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     181 <400> SEQUENCE: 11
     182 acuucuccgg ggaagggag                                          19
     185 <210> SEQ ID NO: 12
     186 <211> LENGTH: 19
     187 <212> TYPE: RNA
     188 <213> ORGANISM: Artificial Sequence
     190 <220> FEATURE:
     191 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     193 <400> SEQUENCE: 12
     194 gccagggacu ucccgaccc                                          19
     197 <210> SEQ ID NO: 13
     198 <211> LENGTH: 19
     199 <212> TYPE: RNA
     200 <213> ORGANISM: Artificial Sequence
     202 <220> FEATURE:
     203 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
     205 <400> SEQUENCE: 13
     206 cuucgccaga gcccaagca                                          19
     209 <210> SEQ ID NO: 14
     210 <211> LENGTH: 19
```

211 <212> TYPE: RNA
212 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING　　　　　　　　DATE: 10/03/2006
PATENT APPLICATION: US/10/652,791B　・TIME: 10:37:42

Input Set : **E:\03-332-B_Sep 2006.txt**
Output Set: **N:\CRF4\10032006\J652791B.raw**

```
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
217 <400> SEQUENCE: 14
218 agcucccgga gcugauccg                                                    19
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 19
223 <212> TYPE: RNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
229 <400> SEQUENCE: 15
230 gcaugaagcg agacggagg                                                    19
233 <210> SEQ ID NO: 16
234 <211> LENGTH: 19
235 <212> TYPE: RNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
241 <400> SEQUENCE: 16
242 gccgccugag cgaagcgga                                                    19
245 <210> SEQ ID NO: 17
246 <211> LENGTH: 19
247 <212> TYPE: RNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
253 <400> SEQUENCE: 17
254 acaucagggg cuucguggc                                                    19
257 <210> SEQ ID NO: 18
258 <211> LENGTH: 19
259 <212> TYPE: RNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
265 <400> SEQUENCE: 18
266 ccgcuguggu gaaugggag                                                    19
269 <210> SEQ ID NO: 19
270 <211> LENGTH: 19
271 <212> TYPE: RNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
277 <400> SEQUENCE: 19
278 gcgcgcaggg cgcacagau                                                    19
281 <210> SEQ ID NO: 20
282 <211> LENGTH: 19
283 <212> TYPE: RNA
```

284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:

```
      287 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      289 <400> SEQUENCE: 20
      290 ucggggccau gcugauggc                                              19
      293 <210> SEQ ID NO: 21
      294 <211> LENGTH: 19
      295 <212> TYPE: RNA
      296 <213> ORGANISM: Artificial Sequence
      298 <220> FEATURE:
      299 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      301 <400> SEQUENCE: 21
      302 ccauccgacu ucggggcau                                              19
      305 <210> SEQ ID NO: 22
      306 <211> LENGTH: 19
      307 <212> TYPE: RNA
      308 <213> ORGANISM: Artificial Sequence
      310 <220> FEATURE:
      311 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      313 <400> SEQUENCE: 22
      314 uggaucugga ggagaccuc                                              19
      317 <210> SEQ ID NO: 23
      318 <211> LENGTH: 19
      319 <212> TYPE: RNA
      320 <213> ORGANISM: Artificial Sequence
      322 <220> FEATURE:
      323 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      325 <400> SEQUENCE: 23
      326 cggugcugac ccaggcccu                                              19
      329 <210> SEQ ID NO: 24
      330 <211> LENGTH: 19
      331 <212> TYPE: RNA
      332 <213> ORGANISM: Artificial Sequence
      334 <220> FEATURE:
      335 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      337 <400> SEQUENCE: 24
      338 uggcucaguc gggacagca                                              19
      341 <210> SEQ ID NO: 25
      342 <211> LENGTH: 19
      343 <212> TYPE: RNA
      344 <213> ORGANISM: Artificial Sequence
      346 <220> FEATURE:
      347 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
      349 <400> SEQUENCE: 25
      350 agcuggagug gccagaggc                                              19
      353 <210> SEQ ID NO: 26
      354 <211> LENGTH: 19
      355 <212> TYPE: RNA
      356 <213> ORGANISM: Artificial Sequence
```

358 <220> FEATURE:
359 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region

```
<210>  207
<211>  21
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  siNA sense region

<220>
<221>  misc_feature
<222>  (1)..(1)
<223>  5'-3 attached terminal deoxyabasic moeity

<220>
<221>  misc_feature
<222>  (21)..(21)
<223>  3'-3 attached terminal deoxyabasic moeity

<220>
<221>  misc_feature
<222>  (1)..(19)
<223>  n stands for any ribonucleotide

<400>  207
nnnnnnnnnn nnnnnnnnnt t                                    21
```

Invalid response

Which ribonucleotide does "N" represent?

See item #13 on error summary Sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/03/2006
PATENT APPLICATION: **US/10/652,791B**   TIME: 10:37:43

Input Set : **E:\03-332-B_Sep 2006.txt**
Output Set: **N:\CRF4\10032006\J652791B.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:207; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:208; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:209; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:210; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:211; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:212; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:213; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:214; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:215; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:209; Line(s) 3349
Seq#:210; Line(s) 3371
Seq#:211; Line(s) 3398
Seq#:212; Line(s) 3425
Seq#:213; Line(s) 3452
Seq#:214; Line(s) 3480
Seq#:215; Line(s) 3507

VERIFICATION SUMMARY   DATE: 10/03/2006
PATENT APPLICATION: **US/10/652,791B**   TIME: 10:37:43

Input Set : **E:\03-332-B_Sep 2006.txt**
Output Set: **N:\CRF4\10032006\J652791B.raw**

```
L:3308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207 after pos.:0
L:3335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0
L:3357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
L:3384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0
L:3411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211 after pos.:0
L:3438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0
L:3466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0
L:3493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0
L:3521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0
```